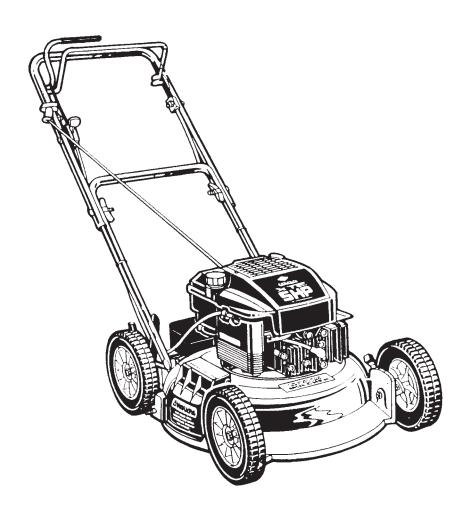


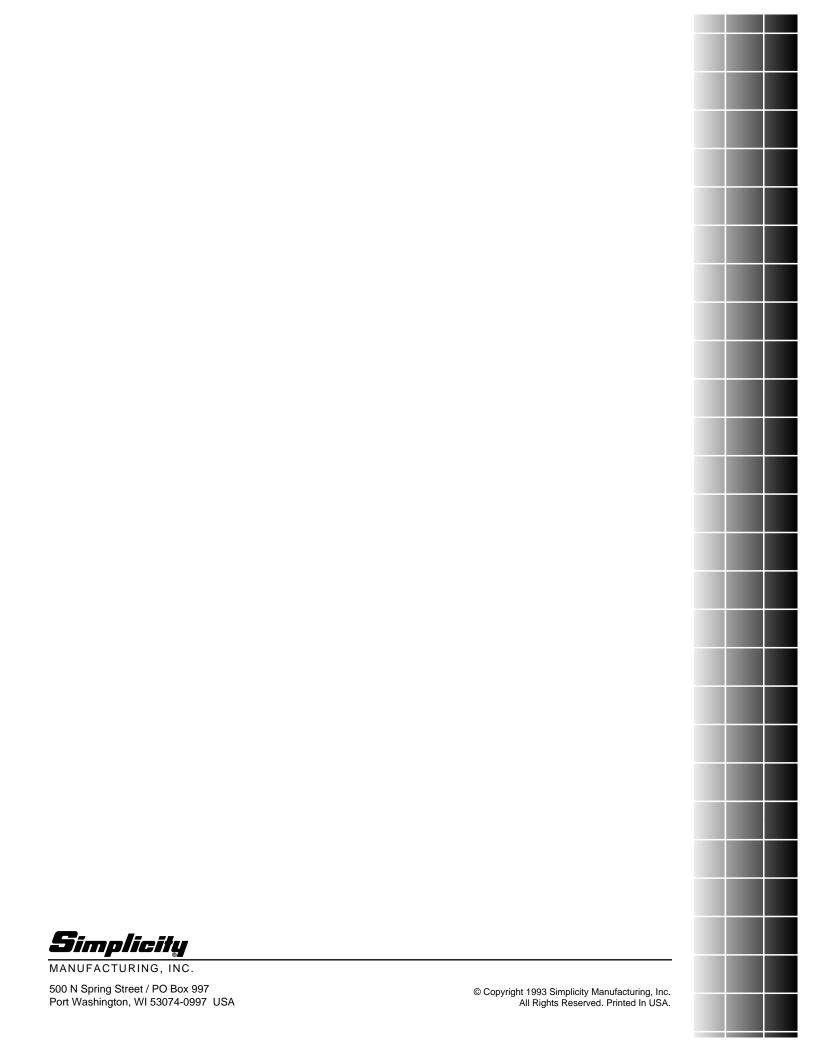
Parts Manual

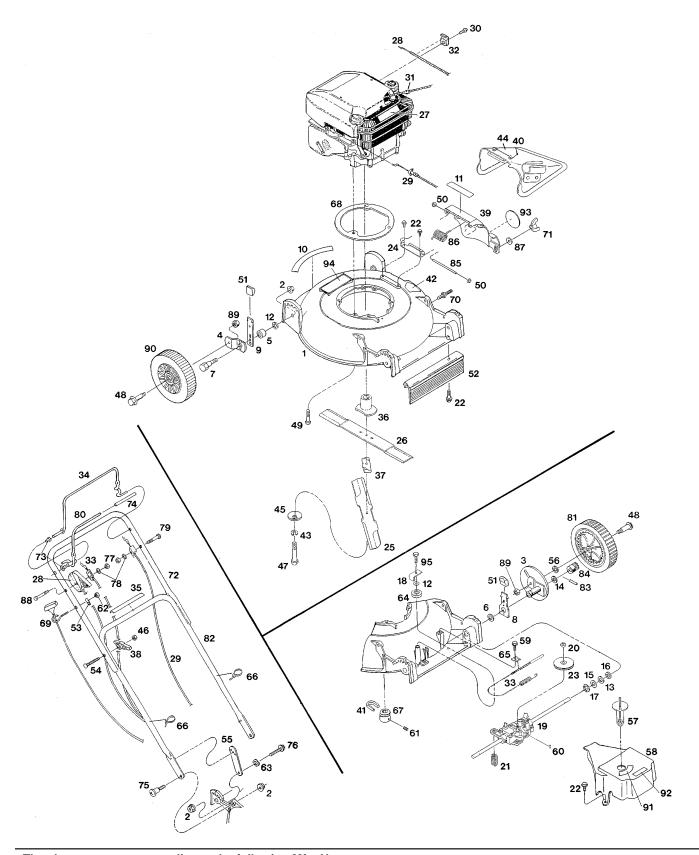


MODEL 520SP — 20" CUT, SELF-PROPELLED MULCHING MOWER

Mfg. No. Description

1692318 Model 520SP, 5Hp, 20" Cut Mulching Mower, Self Propelled





The above parts group applies to the following Mfg. Nos.:

1692318 5HP, 20" Cut Mulching Mower, SP

All Components

REF NO.		PART NO. DESCRIPTION		REF NO.		PART NO.	DESCRIPTION
1	1713127	Deck - 20" orar		48	1713139	Bolt - wheel	
2	1935048	Nut - 5/16-18 fl		49	1921971	Bolt - 3/8-16 x 1	1-3/4" HHCS Gr. 5
3	1713128	Drive wheel su	pport ass'y - blk	50	1960126	Nut - 1/4 push-o	on
4	1713102	Wheel arm - bl		51	1612215	Plastic tip - heig	
5	1612225	Spacer - front h	ngt. adj.	52	1706215	Trailing shield -	
6	1612228	Spacer - rear h	gt. adj.	53	1677890	Washer	
7	1612235	Bolt - height ad		54	1960273	Bolt - handle	
8	1713129	Setting lever as		55	1706236	Handle support	
8	1713130	Setting lever assy R.H. rear		56	1612242	Washer - 3/8" flat	
9	1713104	Setting lever assy. R.H. front		57	1713140	Shift knob - plastic	
9	1713103	Setting lever assy. L.H. front		58	1713141	Drive cover 3 spd.	
10	1713119	Decal - logo 20"		59	1925003	Screw - 1/4-20 x 1/2" hex hd. tap	
11	1713118	Decal - danger	mulch cover	60	1713142	Key - transmiss	ion
12	1917642	Washer - 5/16"	flat	61	1706219	Set screw 1/4-2	20 x 3/8"
13	1612214	Washer- shim		62	1920397	Nut - 1/4-20 loc	k
14	1612222	Washer- 9/16"	flat	63	1706237	Washer - 5/16"	wave
15	173668	Washer- 9/16"	flat	64	1713143	Pulley - 11/4" d	ia.
16	1612286	Washer - 9/16"	wave	65	1612326	Clamp - drive c	able
17	1612288	E-ring		66	1612352	Cable tie	
18	1713131	Retainer brack	et	67	1713552	Drive pulley	
19	1713132	Transmission -	3 spd.	67*	1706218	Drive pulley	
20	1713133	Nut- 10mm lock	<	68	1612410	Engine ring - re	d
21	1713134	Spring - compr		69	1612366	Eyebolt - 1/4-20)
22	1925592	Screw - 1/4-20	x 3/4" hex hd. tap	70	1612387	Stud - 1/4-20 x	3/4"
23	1713135	Pulley - transm	ission	71	960293	Wing nut- 1/4-2	0 nylon insert
24	1713105	Bracket- hinge		72	1713120	Handle - upper	
25	1713106	Blade - 20"		73	1713144	Bushing - drive	bail
26	1713107	Blade - recut 20		74	1713145	Sleeve - drive b	
27	1713108	Decal - blade w		75	1713121	Bolt - handle m	
28	1713109	Control - throttl		76	1713122	Bolt - handle su	
29	1713110	Cable - engine		77	1916622	Nut - 1/4-20 he	
30	1664068	Screw - #10-16	x 5/8" tap	78	921880	Washer- 1/4" st	
31	1677809	Rope stop		79	6041612		x 1-1/2" truss hd.
32	1713116	Cable clamp	_	80	1713146	Bail - ground dr	
33	1713136	Cable - traction		81	1612398	Wheel - 8" pow	er propelled
34	1713137	Bail - engine/bl		82	1706234	Handle - lower	
35	1713126	Decal - starting	instructions	83	1713147	Drive pin	
36	1713551	Adapter- blade		84	1713148	Pinion R.H. 3 sp	
36*	1713111	Adapter - blade)	84	1713149	Pinion L.H. 3 sp	od.
37	1713112	Spacer- blade		85	1713124	Rod hinge	
38	1713113	Wing nut - plas		86	1713125	Spring - mulch	
39	1713114	Cover- mulch 2		87	1921319	Washer- 1/4" fla	
40	1713115	Chute deflector	assembly	88	1923282	Bolt - 1/4-20 x 2	
41	1713138	V-belt	-10-0-0-1	89	1917421	Nut - 3/8-16 jan	n IOCK
42	1677973	Decal - CPSC		90	1706203	Wheel - 8"	hiff in at
43	1916965	Washer- 3/8" lo		91	1713150	Decal - 3 spd. s	
44 45	1713156	Decal - CPSC		92	1713151	Decal - 3 spd. b	beir cover
45 46	1677816	Washer - 3/8" (93	1713152	Decal - 3 in 1	ibla mulabar
46 47	1917372	Nut - 5/16-18 h		94	1713153	Decal - convert	
47	1713117	DUIL - 3/8-24 X	3-1/2" HHCS Gr. 8	95	1929783	Screw - 1/4-20	x 1" hex hd. tap

Footnotes:

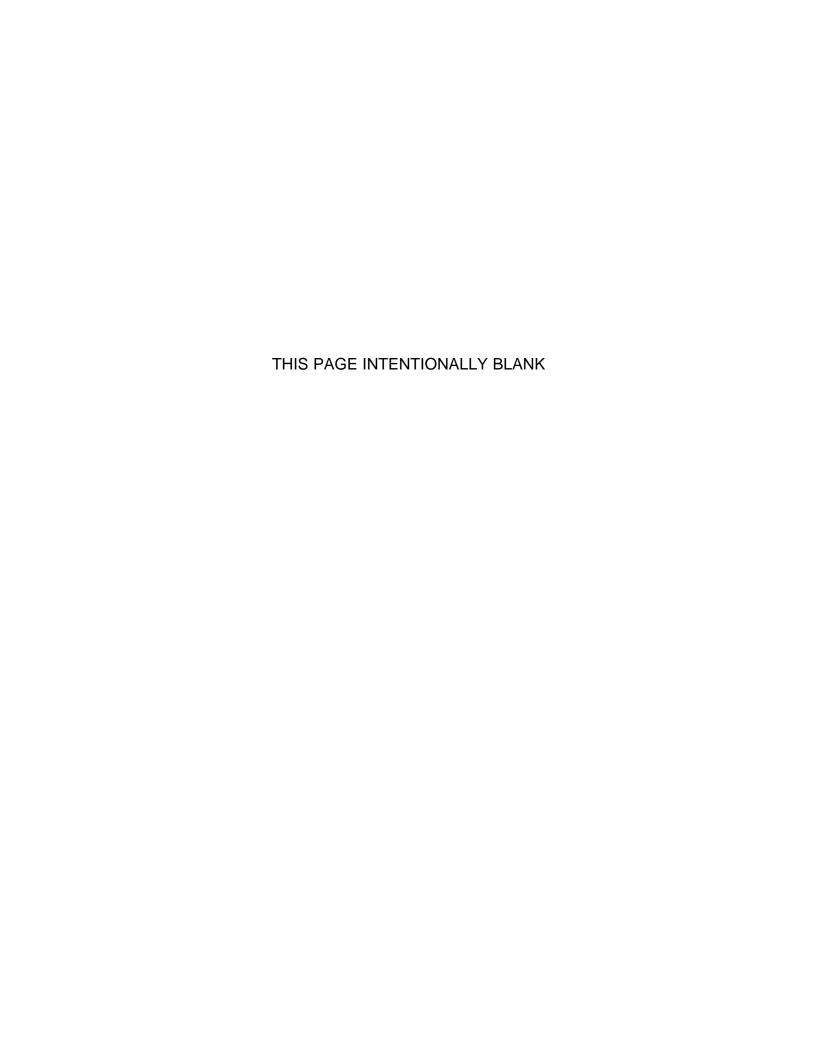
*Prior to Serial No. 1400

Parts are Left or Right Hand as viewed from their operator position.

Specifications are subject to change without prior notice.

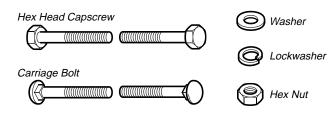
The above parts group applies to the following Mfg. Nos.:

1692318 5HP, 20" Cut Mulching Mower, SP



Hardware Identification & Torque Specifications

Common Hardware Types

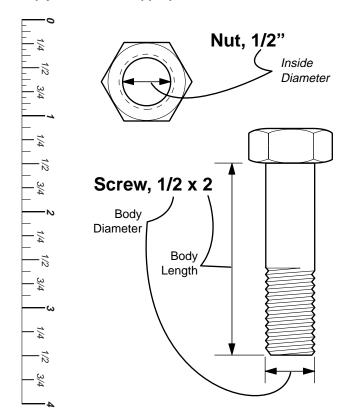


Standard Hardware Sizing

When a washer or nut is identified as 1/2", this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch*

When bolt or capscrew is identified as 1/2 - 16 x 2", this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks						
	SAE Grade 2		SAE G	Grade 5	SAE Grade 8		
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	
8-32	19	2.1	30	3.4	41	4.6	
8-36	20	2.3	31	3.5	43	4.9	
10-24	27	3.1	43	4.9	60	6.8	
10-32	31	3.5	49	5.5	68	7.7	
1/4-20	66	7.6	8	10.9	12	16.3	
1/4-28	76	8.6	10	13.6	14	19.0	
5/16-18	11	15.0	17	23.1	25	34.0	
5/16-24	12	16.3	19	25.8	27	34.0	
3/8-16	20	27.2	30	40.8	45	61.2	
3/8-24	23	31.3	35	47.6	50	68.0	
7/16-14	30	40.8	50	68.0	70	95.2	
7/16-20	35	47.6	55	74.8	80	108.8	
1/2-13	50	68.0	75	102.0	110	149.6	
1/2-20	55	74.8	90	122.4	120	163.2	
9/16-12	65	88.4	110	149.6	150	204.0	
9/16-18	75	102.0	120	163.2	170	231.2	
5/8-11	90	122.4	150	204.0	220	299.2	
5/8-18	100	136	180	244.8	240	326.4	
3/4-10	160	217.6	260	353.6	386	525.0	
3/4-16	180	244.8	300	408.0	420	571.2	
7/8-9	140	190.4	400	544.0	600	816.0	
7/8-14	155	210.8	440	598.4	660	897.6	
1-8	220	299.2	580	788.8	900	1,244.0	
1-12	240	326.4	640	870.4	1,000	1,360.0	

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- 2. Recommended seating torque values for locknuts:
 - a. for prevailing torque locknuts use 65% of grade 5 torques.
 - b. for flange whizlock nuts and screws use 135% of grade 5 torques.
- 3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Wrench & Fastener Size Guide



1/4" Bolt or Nut Wrench—7/16"



5/16" Bolt or Nut Wrench—1/2"



3/8" Bolt or Nut Wrench—9/16"



7/16" Bolt or NutWrench (Bolt)—5/8"
Wrench (Nut)—11/16"



1/2" Bolt or Nut Wrench—3/4"